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Notice of Allowability

Application No.

10/561,195

Examiner

Leigh Marie Garbowski

Applicant(s)

HARADA ET AL.

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed 12/16/2005.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of _____ Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>12/16/2005</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment (<i>incl. 6 drawing sheets</i>) |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric Jensen on 09/12/2006.

The application has been amended as follows:

Drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: in Figures 1A, 1B, 2A, 2B, 2C, 3, and 4, --Prior Art-- was inserted. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Claims

In Claim 11, "part" [line 22] was changed to --step--.

In Claim 16, "part" [line 20] was changed to --step--.

In Claim 21, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--;
--, comprising-- was inserted after "planes" [line 3, second occurrence]; and
"part" [line 22] was changed to --step--.

In Claim 22, "printed circuit wiring board design program" [line 1] was changed to --computer-readable medium--.

In Claim 23, "printed circuit wiring board design program" [line 1] was changed to --computer-readable medium--.

In Claim 24, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--; and
--, comprising-- was inserted after "planes" [line 3, second occurrence].

In Claim 25, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--; and --, comprising-- was inserted after "planes" [line 3, second occurrence].

In Claim 26, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--; --, comprising-- was inserted after "planes" [line 3, second occurrence]; and "part" [line] was changed to --step--.

In Claim 27, "printed circuit wiring board design program" [line 1] was changed to --computer-readable medium--.

In Claim 28, "printed circuit wiring board design program" [line 1] was changed to --computer-readable medium--.

In Claim 29, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--; and --, comprising-- was inserted after "planes" [line 3, second occurrence].

In Claim 30, "printed circuit wiring board design program comprising, in order" [lines 1-2] was changed to --computer-readable medium having stored thereon instructions which, when executed by a computer, perform steps--; and --, comprising-- was inserted after "planes" [line 3, second occurrence].

Allowable Subject Matter

Claims 1-30 are allowed.

The following is an examiner's statement of reasons for allowance: although the prior art of record discloses various systems and methods for printed circuit wiring board design, the prior art of record does not particularly disclose, teach, or suggest, as per claims 1-3, 6-8, 11-13, 16-18, 21-23, 26-28, distance comparison and warning generation as claimed in combination with all of the features recited in their totality; as per claims 4, 9, 14, 19, 24, 29, circle creation, capacitor check, and warning generation as claimed in combination with all of the features recited in their totality; as per claims 5,

15, 25, circle creation, capacitor number check, and warning generation as claimed in combination with all of the features recited in their totality; as per claims 10, 20, 30, circle creation, capacitor capacitance check, and warning generation as claimed in combination with all of the features recited in their totality.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Marie Garbowski whose telephone number is 571-272-1893. The examiner can normally be reached on days.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

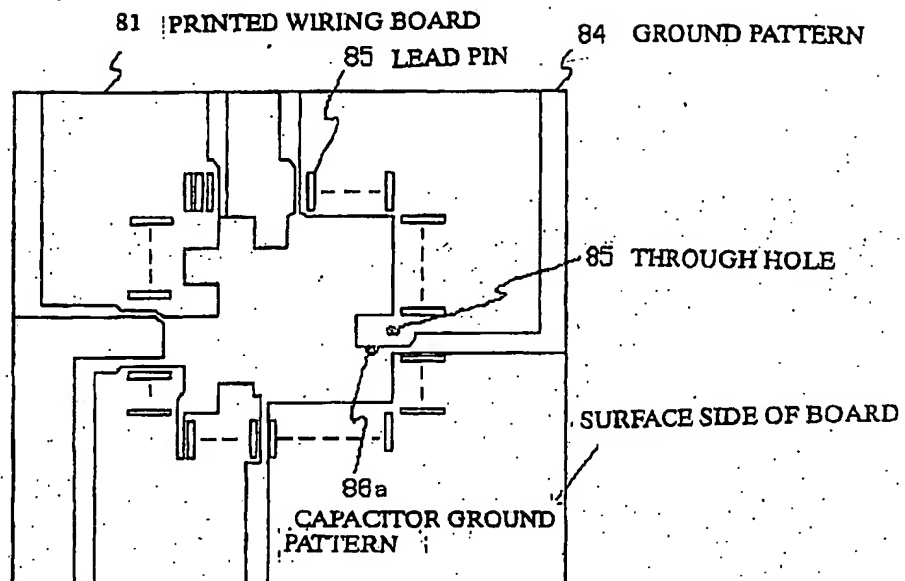
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


LEIGH M. GARBOWSKI
PRIMARY EXAMINER

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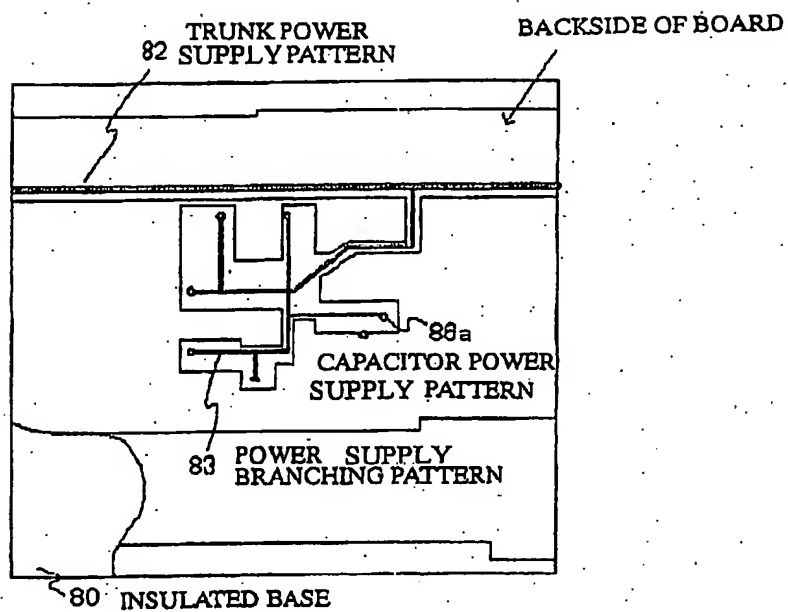
FIG. 1A -- (PRIOR ART) --

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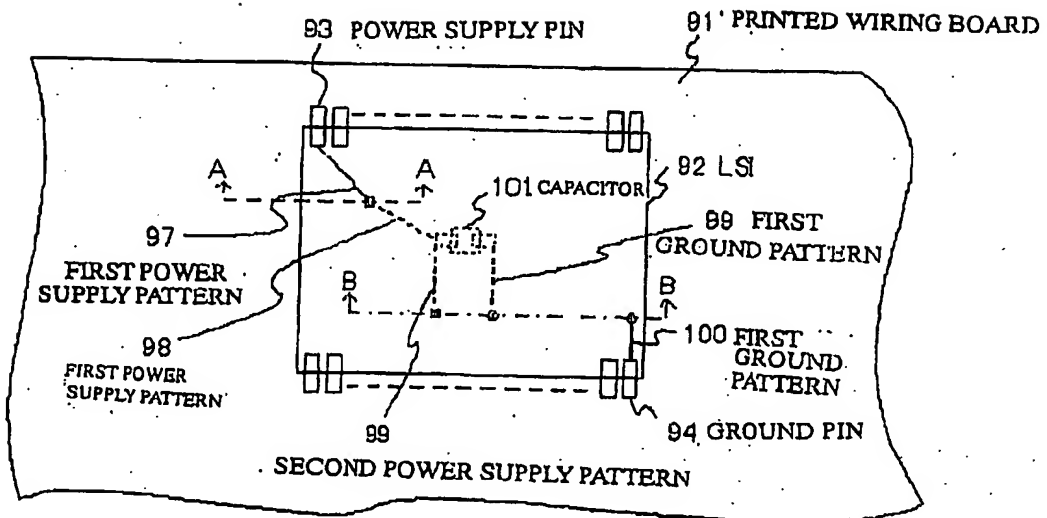
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FIG. 1B --(PRIOR ART)--



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FIG. 2A -- (PRIOR ART) --



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FIG. 2B --(PRIOR ART)--

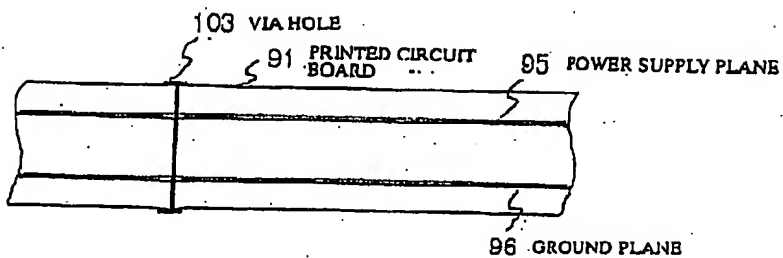
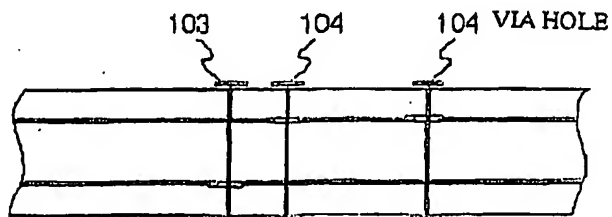
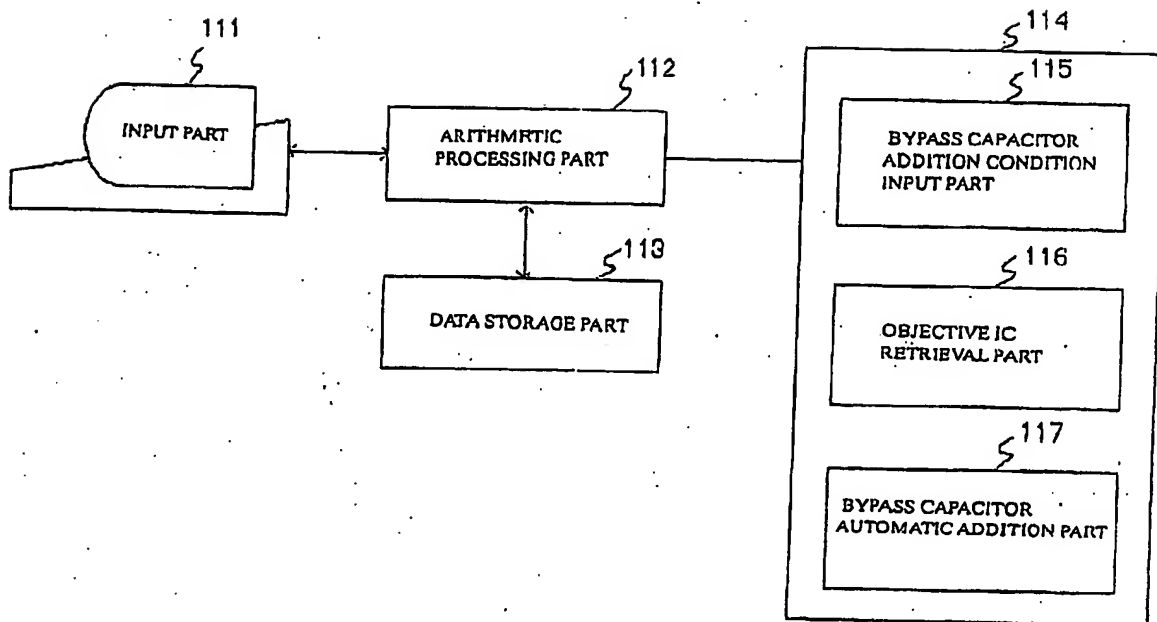


FIG. 2C -- (PRIOR ART) --



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FIG. 3 --(PRIOR ART)--



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FIG.4. --(PRIOR ART)--

